

VOLVO

1972





VOLVO 144

VOLVO 142



VOLVO 145

Specifications:

	B20B	B20F	B30A
Max. output (hp at rpm SAE)	118/5500	125/6000	145/5500
Max. torque (ft. lb. at rpm SAE)	123/3500	123/3500	166/3000
Displacement	121 cubic in.	121 cubic in.	182 cubic in.
Bore	3.50 in.	3.50 in.	3.50 in.
Stroke	3.15 in.	3.15 in.	3.15 in.
Compression ratio	9.3:1	8.7:1	9.3:1

Engines:

Type B20B: Four-cylinder, in-line, overhead valve with dual induction emission control system, full-flow oil filter and thermostatically-controlled preheating system for air entering the dual carburetors.

Type B20F: Four-cylinder, in-line electronically-controlled fuel injection engine with five-main-bearing crankshaft. Fuel pressure regulator and overflow sensor. Electric fuel pump.

Type B30A: Six-cylinder in-line, water-cooled with overhead valves. Seven-main-bearing crankshaft. Full-flow oil filter and thermostatically-controlled preheating system for air entering the dual carburetors.

Cooling system:

Sealed with anti-freeze. Water cooling with pump and thermostat. Capacity Volvo 164 and 140 Series 10.6 quarts. Volvo 1800E/ES 9.0 quarts. Viscous-type cooling fan.

Electrical system:

12 volt system. Battery capacity 60 Ah. Alternator 35 A, fuel injected models and Volvo 164 55 A. Starter motor output 1 hp.

Transmission:

Four-speed all-synchronized manual with remote control shift linkage.

Volvo 140 Series and 1800E/ES

Ratios:	1st	3.13:1
	2nd	1.99:1
	3rd	1.36:1
	4th	1:1
	Reverse	3.25:1

Volvo 164

Ratios:	1st	3.54:1
	2nd	2.12:1
	3rd	1.34:1
	4th	1:1
	Reverse	3.54:1

Overdrive:

Electrically operated. Available as standard on Volvo 1800E and Volvo 1800ES. Optional on Volvo 142E with fuel injection engine. Ratio: 0.797:1.

Automatic transmission:

Fully automatic with part-throttle change-down functions. The automatic transmissions are specially adapted to the engine chosen. Remote control shift linkage.

Clutch:

Single dry clutch of diaphragm spring type. Mechanical control.

Rear axle:

Rear axle of hypoid type.

	Manual	Automatic
142/144	4.10:1	4.10:1
145	4.30:1	4.10:1
145E	4.10:1	4.10:1
164	3.73:1	3.31:1
1800E/ES	4.30:1	3.91:1

Steering gear:

Cam and roller.

	Turning circle	Between curbs	Between walls
140 Series	30 ft. 4 in.	32 ft. 10 in.	
164	32 ft. 10 in.	34 ft. 9 in.	
1800E/ES	31 ft. 6 in.	32 ft. 10 in.	

Brake system:

Foot brake —

Triangle-split dual circuit system. Each circuit operates on both front wheels and one rear wheel. Self-adjusting disc brakes on all wheels. Power assisted. A relief Valve in each rear wheel line prevents premature rear wheel lock-up.

Parking brake —

Mechanically operated through special drum brakes on rear wheels. Lever located between driver's seat and door. Warning lamp on dashboard for parking brake application and faulty brake circuit.

Wheel and tires:

Volvo 142/144 models have 5" pressed steel rims and hub-caps. Whitewall radial tires 165SR15. Volvo 145: Reinforced radial ply whitewall tires 165SR15. Volvo 145E: 6.85×15 whitewall tires. Volvo 164 has 5½" pressed steel rims with chrome hub-caps and trim rings. Whitewall radial ply tires 165SR15. The Volvo 1800E and ES have 5½" pressed steel wheels with chrome wheel nuts and trim rings. Radial ply tires 185/70HR15. All cars have safety type rims.

Body:

All-welded, integral steel body. Reinforced boxed pillars surround the passenger compartment. Complete rust protection and underbody treatment.

Fuel tank:

Located at rear. Capacity 1800E/ES approx. 11.9 gallons. Capacity others: approx. 15.3 gallons.

Trunk:

142/144 and 164: Capacity approx. 24 cu. ft. Volvo 1800E/ES have a rear seat feature whereby the backrest can be folded forward to give extra room.

Heating and ventilation system:

Thermostatically-controlled heating and ventilation system. Quiet running two-speed fan. Outlets for both front and rear areas on 140 Series and 164. Three defroster vents on windshield. Fresh air intakes under each side of dashboard. Air extractor outlet at rear for flow-through ventilation. A check valve prevents exhaust gases and drafts from entering car. Electrically heated rear window.

Lighting equipment:

High and low beams controlled by column-mounted switch. Automatic backup lights. Interior lighting. Instrument lighting with rheostat control. Four-way emergency warning lights. Side marker lights. Volvo 1800E and ES have an illuminated center lock for front seat safety belts.

Other standard equipment on Volvos:

Padded sun visors. Day/night rearview mirror. High impact laminated windshield. Two-speed electric windshield wipers. Electric windshield washer. Warning lamp for choke (not fitted on fuel injected models). Automatic retracting seat belts on front seats. Rear seat lap belts. 140 Series models and 164 have adjustable headrests. Expandable map pockets on front doors. Outside rearview mirror, two on 145. 1800E/ES has locking console.

The factory reserves the right to make changes at any time, without notice, in prices, colors, materials, equipment, specifications and models and also discontinue models.

VOLVO

AB VOLVO GÖTEBORG SWEDEN